

HOLLOW FIRE CLAY BUILDING T I L E



LACLEDE
CHRISTY
C L A Y
PRODUCTS
COMPANY

SAINT LOUIS
U S A

M C M X I



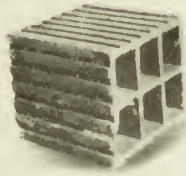
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NATIONAL MUSEUM, ROME
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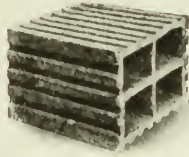
Hollow Tile



Laclede-Christy Clay Products Company
Saint Louis, U. S. A.

MCMXI

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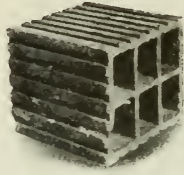
Hollow Fire-Clay Tile Construction has so successfully met the demand for the better and safer building of residences that it has led us to publish this book to show economy of construction, combining simplicity, substantiability and artistic effect.

For the assistance rendered in the compilation of this booklet, we are indebted to Mr. Laurence Ewald.

LACLEDE-CHRISTY
CLAY PRODUCTS COMPANY

October, 1911

p 37029



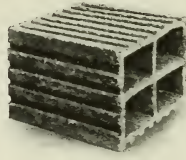
*For
Residences*

The use of Hollow Tile for fire-proofing is not new. In the construction of large buildings hollow tile has been used more than any other material. St. Louis, the leading city of the United States in the manufacture of clay products, was one of the last to use Hollow Tile in the construction of residences. Throughout this country numerous houses, ranging in cost from \$4,000 to \$100,000, have been built of hollow tile, but it was not until the erection of the residence of Mr. Julius S. Walsh, Jr., in 1909, that this excellent material was used in this vicinity. Recent buildings have, in the eyes of the owners, architects and ourselves, justified its use. The future of Hollow Tile for residences is assured.



BARNETT, HAYNES & BARNETT Architects

RESIDENCE OF MR. JULIUS S. WALSH, JR.
ST. LOUIS COUNTY



*Used as
Masonry*

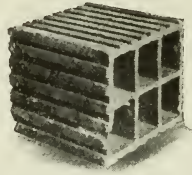
The use of Hollow Tile for residences is a development of comparatively recent years and has made possible the fire-proof house at a cost not greatly in excess of one of ordinary construction. In building a residence of this character, hollow tile is used as masonry. Foundation walls, exterior walls, interior partition walls, floors and roof are all made advantageously of our tile. The steel skeleton, used in large buildings, is not here employed. The small corrugated bar, used in the simplest re-enforced concrete construction, is the only steel necessary. All details of construction, particularly those for exterior walls, have been worked out and brought to a standard, until there exists no risk or experimentation in the construction of a hollow tile house.



LAURENCE EWALD Architect

RESIDENCE OF MR. EDWARD GOCKE, ESQ.
ST. LOUIS COUNTY

House, Garage and Stable are of Hollow Tile throughout—all are thoroughly fire-proof

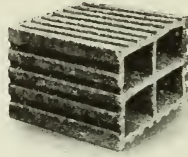


Fire-proof Hollow Tile is made of fire clay burned. It possesses the greatest known resistance to fire. The Baltimore conflagration in 1904 proved hollow tile superior to all other forms of fire-proofing. In the San Francisco disaster it withstood not only fire, but the tremor of the earthquake. These tests show the desirability of the use of Hollow Tile for residences.



ROTH & STUDY Architects

RESIDENCE OF GEORGE A. RANDOLPH
ST. LOUIS COUNTY



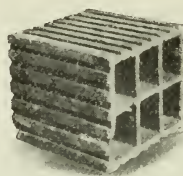
*Simplicity of
Construction*

The construction of a fire-proof house of Hollow Tile is extremely simple and the work goes on very rapidly. The tile is light and easily handled, and quickly laid. The forms for the support of the concrete work are small and not hard to build. Architects and members of university faculties have co-operated with the manufacturers in the working out of details. A house fire-proof in every respect can now be built at a cost not greatly in excess of the cost of one of brick and wood.

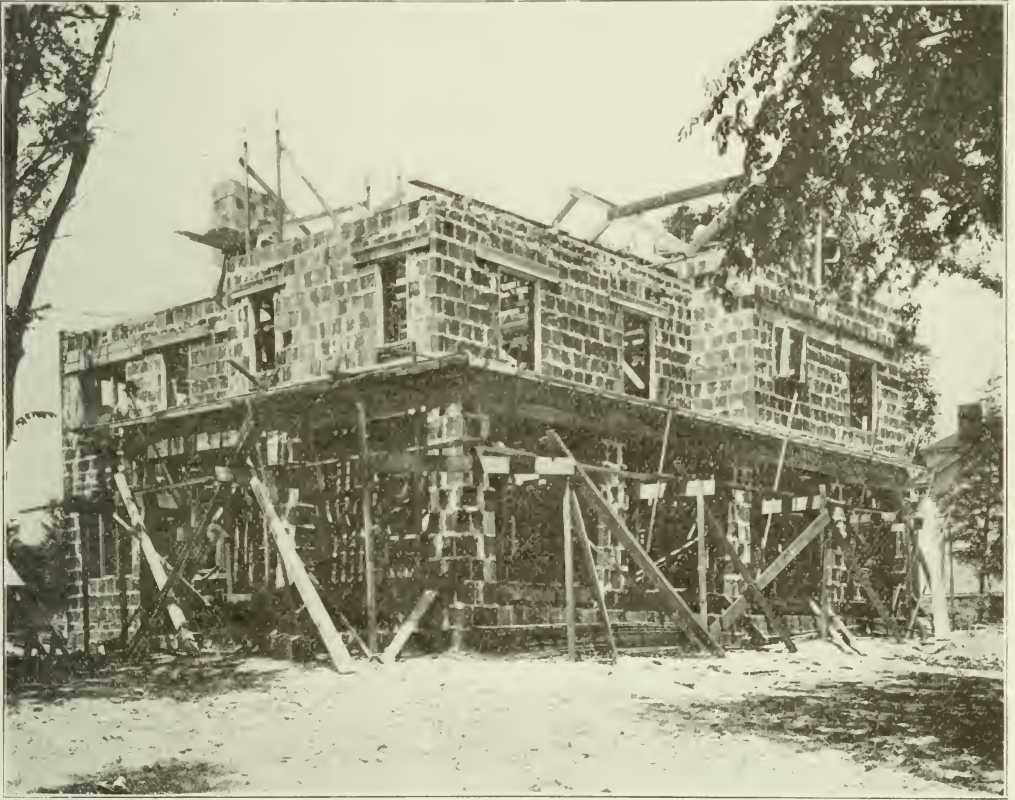


LAURENCE EWALD Architect

RESIDENCE OF DR. H. G. WYER
KIRKWOOD, MO.

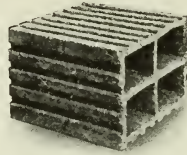


Cost of The Hollow Tile fire-proof house is
Maintenance permanent, durable and free from the
necessity of constant painting and repairs.
Depreciation is small, the insurance rate
low, and the expense for heating is the
minimum. It is fire-proof and it costs
but little more than a house of ordinary
construction.



KLIPSTEIN & RATHMANN Architects

RESIDENCE OF LORRAINE F. JONES, JR., ESQ.
KIRKWOOD, MO.



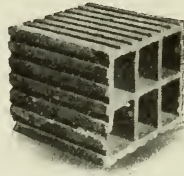
Comfort The Hollow Tile fire-proof house is substantial, comfortable and inviting. It is not affected by changes of temperature. It is cool in summer and warm in winter. The walls do not radiate heat and the winds do not penetrate. The library is quiet and one is not disturbed by household noises. The kitchen odors do not fill the house. It is thoroughly hygienic, odor-proof, vermin-proof, damp-proof and quiet. Hollow Tile is indestructible; its air cells insulate and deaden sound.



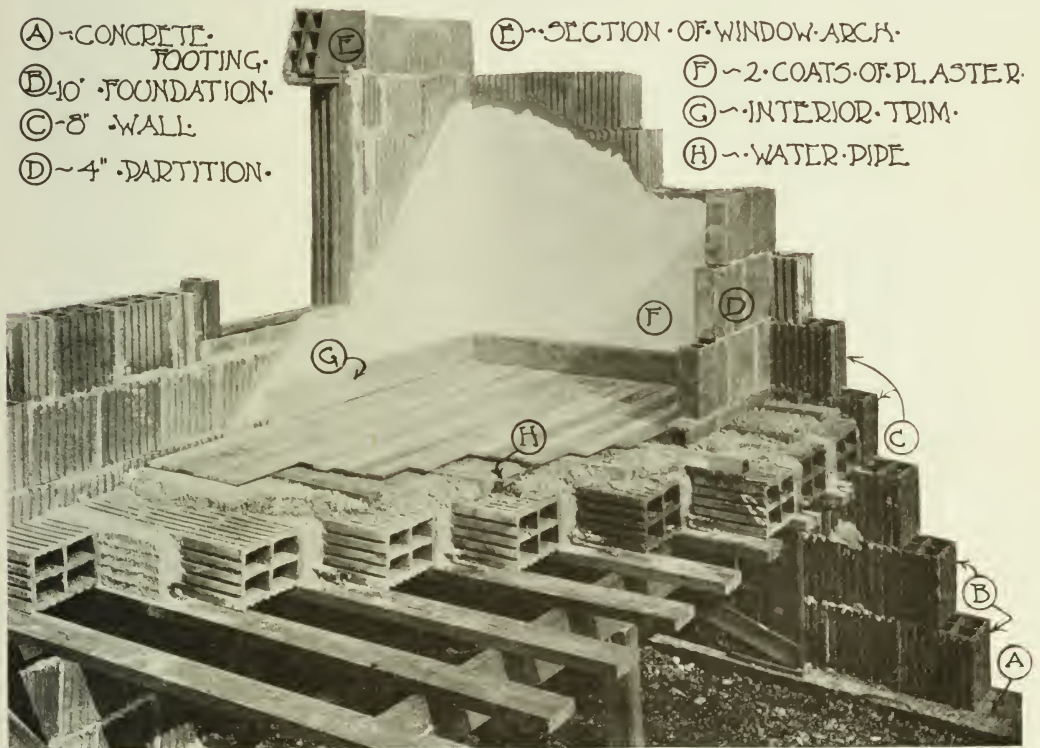
LAURENCE EWALD Architect

RESIDENCE OF C. E. KING, ESQ.
WEBSTER GROVES, MO.

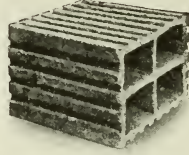
Bids taken at the time of the erection of this house showed the cost of exterior walls of hollow tile to be only \$200.00 more than walls of wood



Solidity From a structural standpoint the Hollow Tile house is irresistible. Walls, partitions, floors and roof of hollow tile become one solid mass of masonry, thoroughly insulating and fire-proof. The merits of this construction are so obvious that men familiar with the subject agree that with Hollow Tile construction the fire-proof residence has arrived. Hollow Tile is pre-eminently the building material of the future.

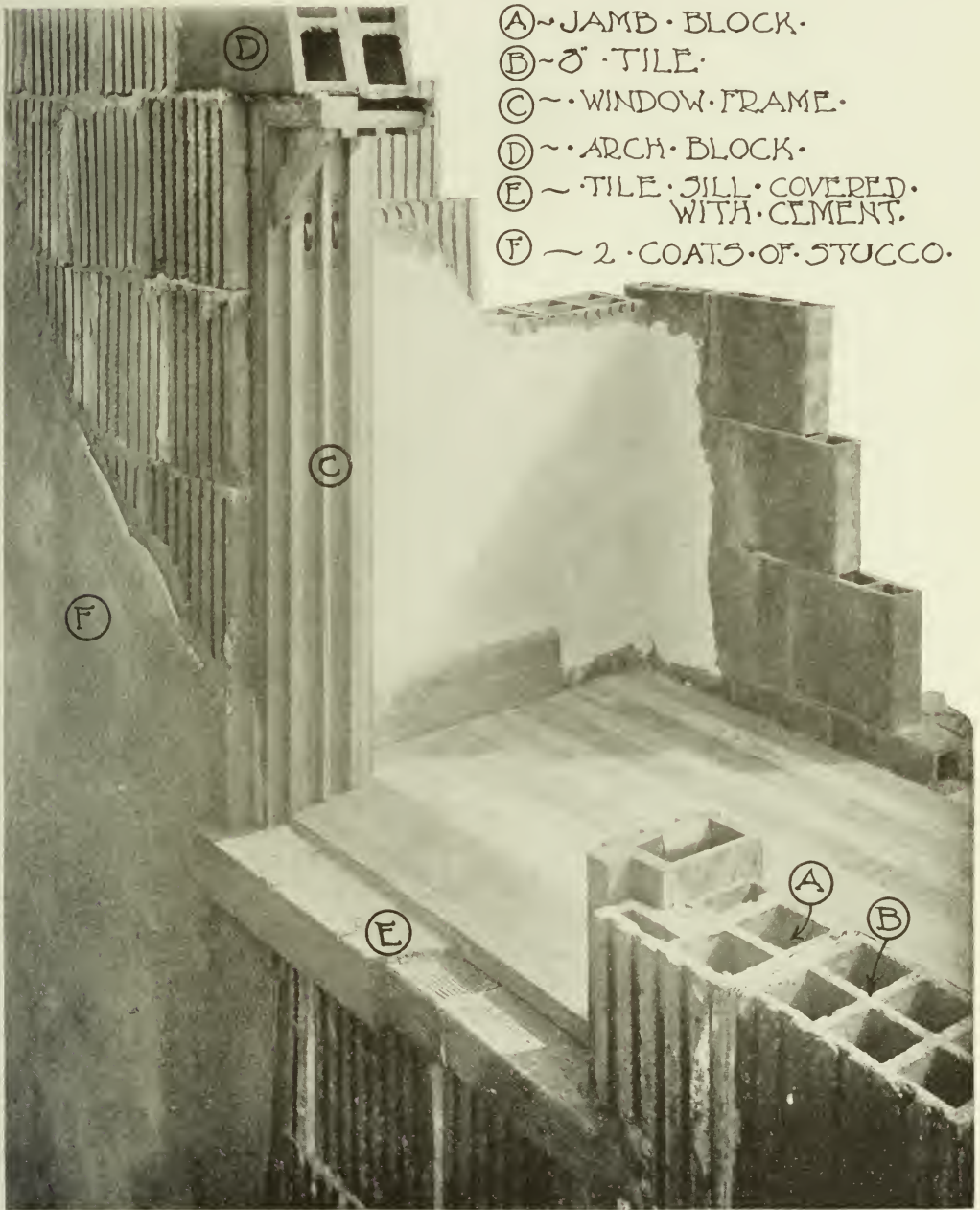


SECTION OF A FIRE-PROOF HOLLOW TILE HOUSE
SHOWING FALSE WORK STILL IN POSITION

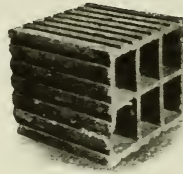


*Floors and
Partitions*

Floors and partitions of hollow tile, when used in connection with Hollow Tile walls, become a unit. A house of this construction will be free from plaster cracks; the base will not shrink away from the flooring. Sounds will not pass from room to room. It will be warm, dry and fire-proof. Any desired flooring may be laid over Hollow Tile.



SECTION OF FIRE-PROOF HOLLOW TILE HOUSE
SHOWING SPECIAL BLOCKS OF
WINDOW JAMBS



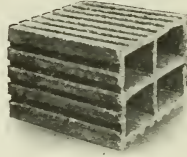
*Exterior
Walls*

Exterior walls of Hollow Tile insulate. The air cells do not permit the passage of cold, heat and moisture, common to solid brick walls. Hollow Tile walls are better than brick walls with furring. Furring shrinks and causes plaster cracks. The space between the furring and the brick makes room for vermin. Brick may be applied to Hollow Tile exterior walls and give the building the appearance of being one of brick.

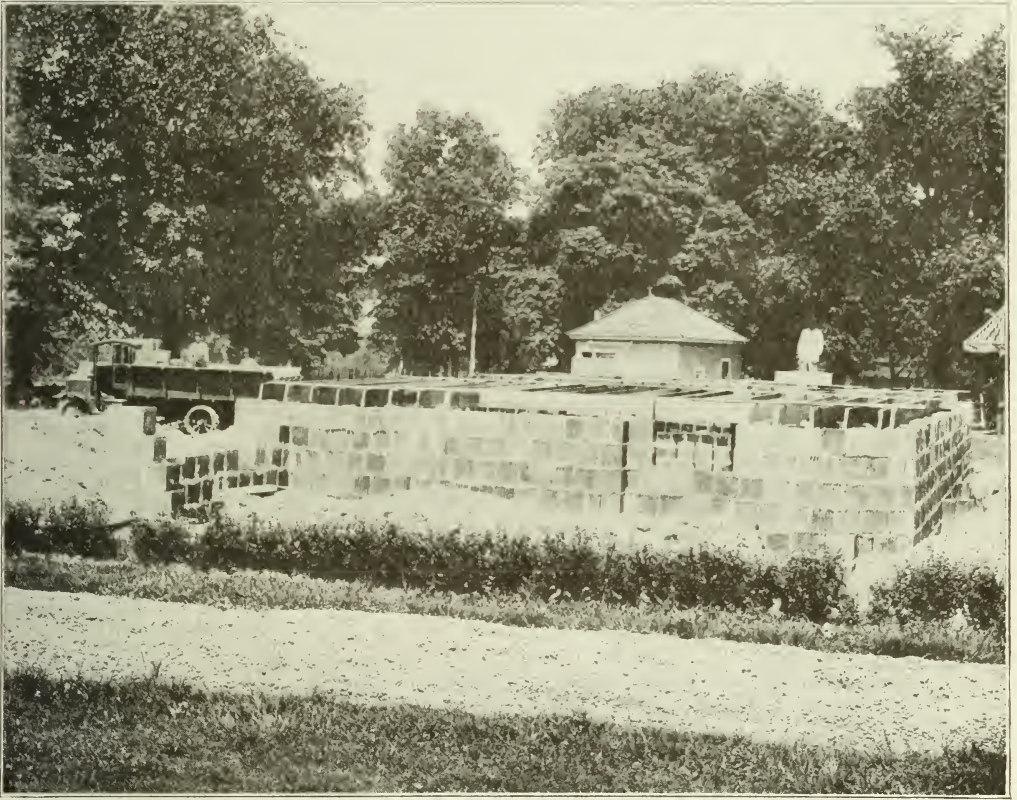


HELFENSTELLER, HIRSCH & WATSON Architects

RESIDENCE OF JOHN WILLIAMS, JR.
WEBSTER PARK, MO.

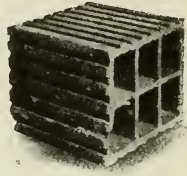


Dry Cellars Salt glazed clay pipe has for years been used for sewers. It is impervious to water, does not deteriorate under ground, and is extremely hard and strong. We make a Hollow Salt Glazed Tile of sewer pipe material for foundation walls. Cellars built of this tile are strong and durable, have smooth, clean walls, and are as dry as any other part of the house.

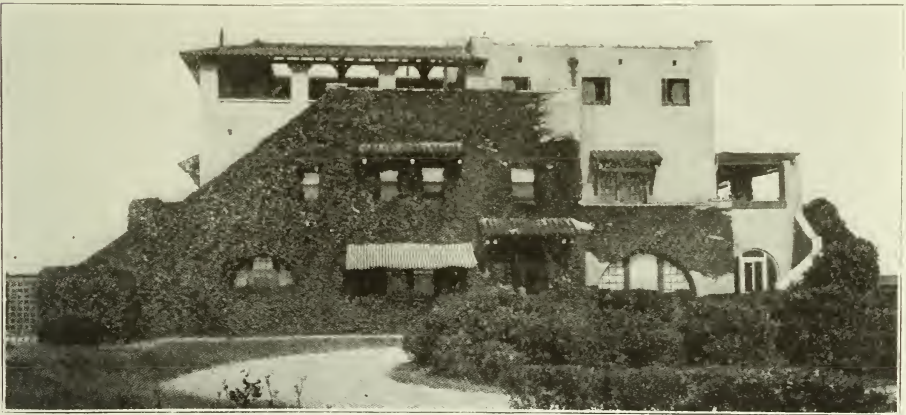


FOUNDATION OF RESIDENCE FOR C. H. NEWTON, ESQ.
WEBSTER GROVES, MO.

Made of Salt-Glazed Hollow Tile

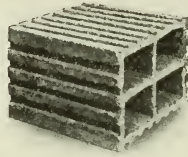


Roofs Any form of roof that can be built of wood may be nicely constructed of hollow tile, and, if desired, may be given the appearance of the ordinary roof framed of wood. The natural form of roof for Hollow Tile is flat. Covered with flooring tile it may be used as a roof-garden. It is well to remember how many fires start at the roof.



GROSVENOR ATTERBURY Architect

HOUSES AT BAYBERRY POINT
LONG ISLAND, N. Y.



*Stucco in
Europe*

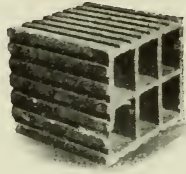
In every country of Europe there are beautiful houses built of soft brick covered with stucco. The wish to imitate these lead many people in America to build houses of wood and cover the exterior with metal lath and cement. Stucco applied to hollow tile walls has almost entirely superseded this uncertain form of construction.



BIRTHPLACE OF SIR WALTER RALEIGH, WILMCOTE, ENGLAND



MAISON DES CONSULS, PERUGUEUX, FRANCE



*Stucco in
America*

Stucco was first used in this country by the builders of the Spanish missions. Colonial architects used it, and later, about the time of the Civil War, it came into use for the imitation of stone. Our Hollow Tile has deep dove-tailed grooves which hold the stucco. The tile and stucco become one and cannot be separated without destroying both.



MISSION DE CONCEPTION 1732

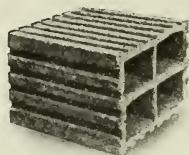


BUILDING AT FOURTH AND
LOCUST STREETS
ST. LOUIS
1860



HAINES HOUSE, PHILADELPHIA 1620

STUCCO ON BRICK WORK

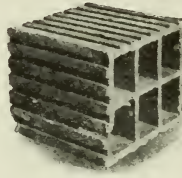


*It is Not
Cement*

A Hollow Tile house covered with stucco has the appearance of a cement house and is frequently mistaken for such. The walls of a Hollow Tile house have dead air cells which make the house perfectly dry. A cement house is not dry. There can be no dampness where Hollow Tile is used.



RESIDENCE OF EDWARD CROSS, ESQ.
MAPLEWOOD, MO.



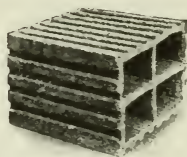
*It Confines
the Sound*

In residences there is no problem more serious than that of preventing the occupant of one apartment from annoying the occupant of another; there is no form of annoyance greater than the transmission of sound. During the construction of the Musical Arts Building in Chicago, Mr. Dwight Perkins, the architect, in endeavoring to isolate the studios, made exhaustive tests of sound-deadening materials. He selected Hollow Tile.



LAURENCE EWALD Architect

MONDAY CLUB, WEBSTER GROVES, MO.



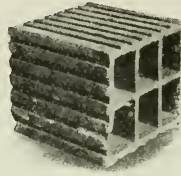
*Dry
Walls*

The water that on a cold day trickles down the inside of the window pane is not water that has come through the glass from the outside. It is condensation. Condensation will take place on the inside of any wall, either stone, brick or concrete, having no dead air spaces. There can be no condensation on Hollow Tile walls.



DETAIL OF THE MONDAY CLUB

Hollow Tile arches over windows

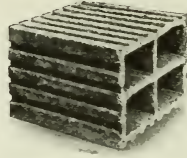


*Fire-proof
Garage*

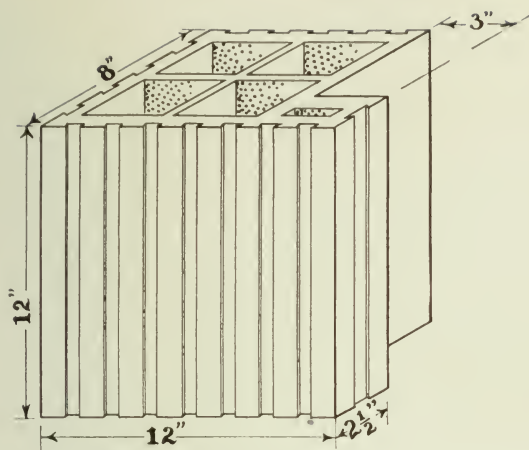
A public garage of Hollow Tile can be built in such a way that several machines could burn in one section of the building and yet do no injury to the building or the machines stored in other sections of it. For the small garage there can be nothing better than hollow tile. It is dry, clean, durable and fire-proof.



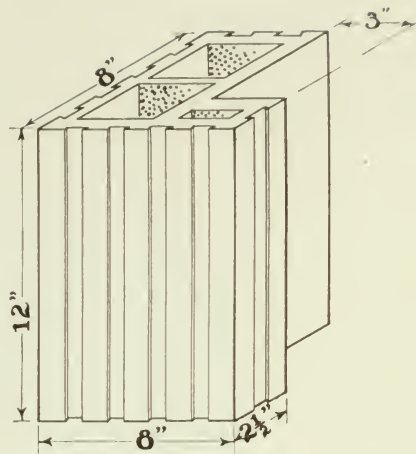
A fire at the plant of the Vera Chemical Co., Stoneham, Mass., consumed 2,000 barrels of rosin and turpentine about this Hollow Tile building. The heat was so great that the glass was partially melted from the Detroit Fenestra Steel Sash. The Hollow Tile was not injured



Shapes Hollow Tile may be had in various sizes, with either four or six air cells. Where tile with four air cells is used, the partitions come directly under the partitions of the tile above, which provides good support. We make and carry in stock special tile for door and window arches, window jambs and corners.

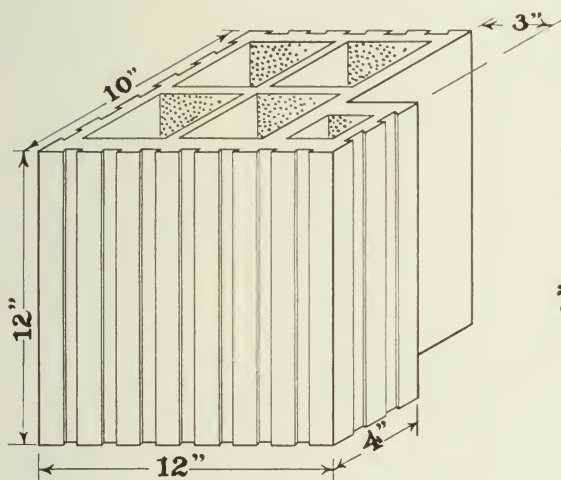


·WHOLE·BLOCK·

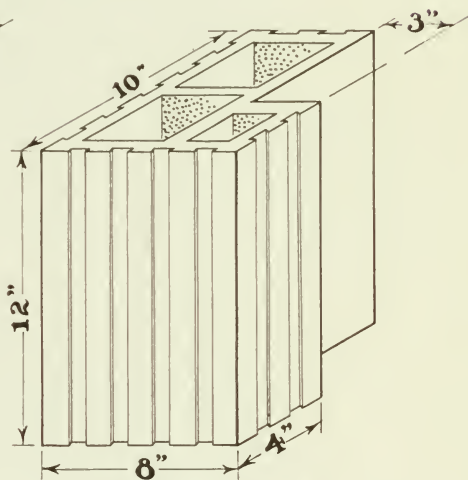


·HALF·BLOCK·

·8·INCH·JAMB·TILE·

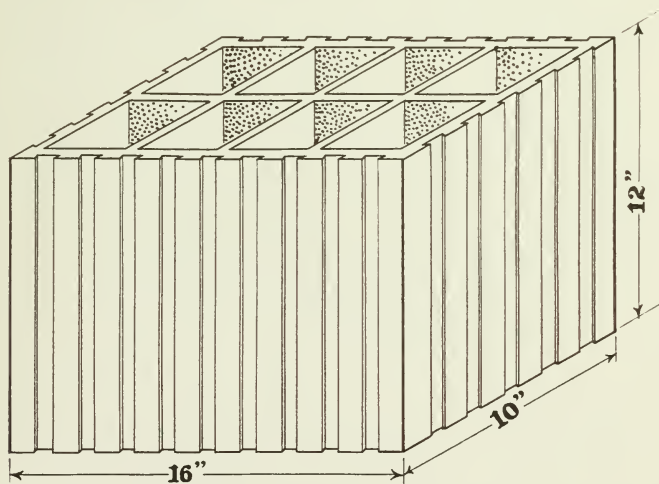


·WHOLE·BLOCK·

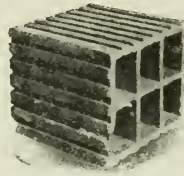


·HALF·BLOCK·

·10·INCH·JAMB·TILE·



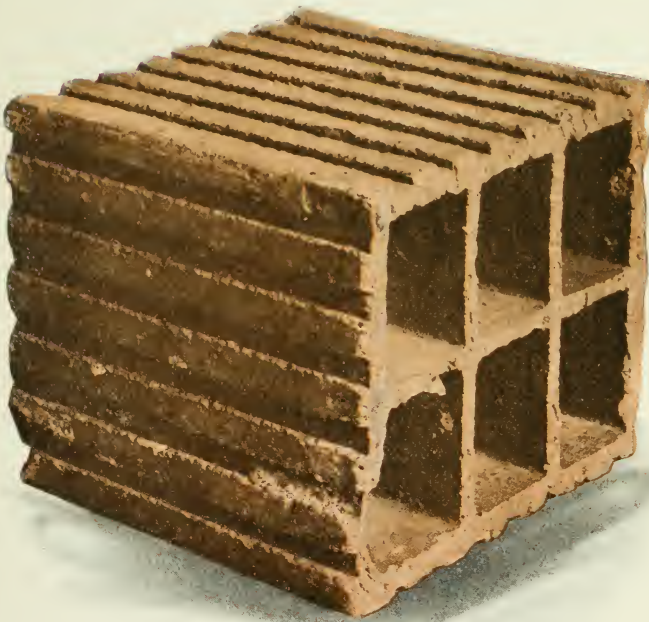
·10·INCH·SPECIAL·CORNER·BLOCK·



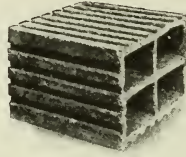
Tests Tests recorded in bulletin No. 29 of the University of Illinois, show three columns of brick $12\frac{1}{2}$ inches square and 9 feet 10 inches long failing at an average load of 3,367 pounds. Two similar columns of Hollow Tile, under exactly the same conditions, withstood the maximum load of the testing machine, 3,760 pounds, a difference of $11\frac{3}{4}$ per cent in favor of tile. Other tests showed as much as 46.1 per cent in favor of tile.



FOUR-CELL HOLLOW CLAY TILE
DEEP SCORED



SIX-CELL HOLLOW CLAY TILE
DEEP SCORED



Cost Owing to variations of interior finish it is difficult to compare the cost of houses. Roughly, a frame house worth \$10,000.00 would have cost, had it been built with Hollow Tile foundation and exterior walls, \$10,500.00. A brick house which cost \$10,000.00 to build would have cost \$9,500.00 with Hollow Tile foundation and exterior walls; or it might have been built fire-proof throughout for \$11,000.00.



FOUR-CELL HOLLOW CLAY TILE
SCRATCHED



SIX-CELL HOLLOW CLAY TILE
SCRATCHED

Laclede-Christy

HOLLOW TILE
SEWER PIPE
WALL COPING
CHIMNEY TOPS
FLUE LININGS
FIRE-PROOFING
DRAIN TILE

WASHED POT CLAYS
CRUDE POT CLAYS
FURNACE CLAYS
FLINT CLAYS
SIEGE CLAYS
SAGGER CLAYS
CHEMICAL BRICK

GLASS HOUSE REFRACTORIES
GAS WORKS REFRACTORIES

STOKER DEPARTMENT

Manufactures and Installs

"LACLEDE-CHRISTY"

CHAIN GRATE STOKERS

RESEARCH DEPARTMENT

Develops High-Grade Refractories For Severe Service Conditions

ENGINEERING DEPARTMENT

Furnishes Plans and Specifications
Contracts For and Erects

GAS WORKS

GLASS FACTORIES

METALLURGICAL FURNACES

AND OTHER INDUSTRIAL PLANTS

Laclede-Christy Clay Products Co.

Saint Louis, U. S. A.

Pamphlets Descriptive of Other Products on Request



Lambert-Deacon-Hull Printing Company
Saint Louis

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